

1/21

-6660 TCTAGAATAT AGAAGATAAG TTTGCGTACA ATTCAGTCCT TTGAAGACCT
GATAAGCTTT AAGAAGGAAG ATGGGTACCA CATTGGGAAA TGGTTGCAAT
CTGCACATGG CAGAGGCAAG AGATGCAAAT CACATTTCTT ACATACTCCA
-6510 TACAAATCTT ACAAGACTGT TTTTCTTTCT CATTTAAAAT AAGAAGACCT
GCCAGTCTTC CCCTTATTAC TAATTACAGT CACTCTGTAT CTTTGTTGAC
ATTGGATAGT TTTACATACT TCAACAGGCT GGTGTCATTA AAGTTGTGGT
GGGTGGGCAC CAGAGACACG TGATTCAGAG TGGGAGGAGA TGCAGGAGAA
ACGAGGCACA GCAGAAGCAG AAGCGAGGAA AAACACTCTC AACGTTACTA
ACACATCGAG AGGTTCGCA CACTAGCAAT ACGGGCTGAA TCTGACCTAA
TCTCTGCTGT TGAAAATTTT GCCTAGCCGC AACTAGCAA TACGGGCTGA
ATCTGACCTA ATCTCTGCTG TTGAAAATTT TGCCTAGCCT GTCACACAAG
TGCTGAGCAT ACAGAAAAG GAGAGTAATT CTCTGGTTCT TTGACTAACC
AAATAGTCTA TATCAAATTG CCTAAGATAA TGTATACATT TAGTACATGA
-6010 CTGGTTATAC CTATTCTATA TGACTATTAT TTAAATGTGA ATTTACAAGT
GAGCATATGA AGTCCATTTT ACATGGCTAG TACATATAAC TTTTAAAAG
TTGGACATAG TTATATTTTT CCATTTATTT ATTTACTTTA TATCCTGATC
ACAGACCCCC CCCTCCTCTG GATTAACCTCT CTCCACTGCT TCTTACCCT
CCCCATCTCT CTTTACCTC TGAGAAGGGG GGATACCTCC TGTCTTATCT
GGTTTCAGTG GGAGAAGGAT GTATCCTAAC ACATATAATT TTTAATATCC
TGAGTTTTTC TTTCATACAC CTTACTTATT CTATTCATTT TTCAGGAAGG
CATGTTTAAT GTTTTTTTTT TAATTTTATG TGTACGAGTG TTTTGCCTAC
ACAGTCATAG TGCATCGCAT ACATTTTTCG TGCCCGTAGA GATCAGAAGG
GAGCATTGGG TTCCCTAGGA CTGGAGGCAT GAACCACCTT GTGGGTGCAG
AGAACTGAGC CTGGGTCATC TCAAAGCATC AGGTCTTCT TGAGTCATCT
CACTTGCCAC TTCTCCCATT TACTGATTTT ATCTGTGTGC AGACATTCAT
GGCCCAGTCC ACAGGTGGAA GTCAGGGACA ACCTATAGGA GTCAGTCCTC
TCCTTCTACC GTGTGAGTCC CTGGCCTCAA ACTCAGGTTG TCGGGCTTCA

Figure 1

2/21

TAGCAAGAGC TTCTATTTGT TGAGCCATCT TGCTAGCCCC ACCCCATACT
ATCTTTATAA TATCTGTTTA ATTAAGACAT TCATAATGAA TTTTATTAAC
ATTCATCGTT ATCCCCTTTA CCAATTTTAC TATGTATTAA TTGCCACCCC
TTTAAATTTA ATTACTTCCT TGGCTGGGTT TTACAGGAGA GTTCCAGGAA
GCTAGATGGA GAGATGGCTC AACAGTTTAG AGCAACGGCT GTTCTTGCAG
AGGACCTAGG TTCAAGTCCT GGCACCTCAGA GGTGGCTCAC AATCATCTGT
-5010 GACTTCAGTT CCAGGGGATC TGAAGAATTC TTCTGGGCTC CATGGGCATC
AACTACACAC TTGGTTCATA GACATACATG CCAGCAAATG ATTGATCCAT
ACATATGAAA TAAACCATAA ACAGAAAAAA AAAAGGAAGG TGAGGGAAGG
AAAAAAAGTT TAAAAAAAGG AAAGGAAGGA AGGAAGGGAN NNNNNNNNNN
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNTCTCTC CATACTGAAA
GATGTCCACA ATGACTAAGG GAATTTTTTT TAAAAGACAA GCACAACGTT
TTCTAGGGAT CAAACTCTAT TTGTGAGGAA GACTGGTGGT TTGAAGATTA
CATAGCAGAG TTACATCTAA CATGAGCGTG TTTCCCCTGG ATGGAAGGAG
TCTGATAACT TGTCTTTCTT TCTTAGTTAG CATCTCAGAG TCCCCGCCT
CCCTTAACAT CCTTTTGTGA CACCATCTTT TTAGGAAAAT GGATCATTTA
TGGGGATGTA GTGATTTGTA CAAGAAATGTC CCCTGTGGGC TCAGATATTT
GAATACTTAG TTCCCAGTTG GGGGAGCTTT TGTAGGGAGG TTGGGAGGCA
CAGCCTGGCA GGAGGAAGCA TGCTAGCAGC TTTGAGACTA TAAACCCTCA
TCTACTACCT TGTCTCTTTT CTGCATTGTG CTGTGTCTGA CACTGTGAGA
TTCCTGCTCC CGATGCCATG CCTGCCCCGCC ATGATAGACT CCTAGCCCTC
TGGAAGGTA ACCTCAGTGA ACTCTCTTCT ATAAGTTTCT TTGCTCCTGG

HindIII (-4200)

TGTTTTATCA CTGAAACGGA AAAGCTTGCA GGGAGGTAGG AGGCAGCCTG

Figure 1 continued

BstEII (-4100)

TGGCGTTGAT TCAATGCACC TGGCCTTATC CTCGGATGAG ATCGGTCACC
AGTCAAAAAC TGTGAGCTTG AAGGTCTTGG GTGCTTAACA TCTATTTTTA
CAAATCTTAT TTAGCAACTT AGAACTGTGA AATATTGGAA AGCTACTTAA
-4010 ACCTTCTAAA CTCCCTCCTC CACACTATGA GAATGTTACA TTTTCTATTC
AGTTATTTTT GAGCAGTAAA CAGATGAATC AAGGAATATG CCCATCACAT
CAAGAGTGCT CCTAAATGGA CTTGCTTGTT ATTCATTTAC AGTGTGGCCC
CTTGACTTTC ATCGGCACTC CTAGCAGAAA ACAAATCCG CCAGATGGAG
CTGGAGAGAT GGCTCAGCTG TTAAGAATAC TTATCCCTAC ACAGGCCCTG
GAGCCAGTTC CCAGCACCCA CACGGTGGCT CACAACCATC TGTAACCTCA
GTTCTAGGAG ACCCGACTCC CTCTTCTGTC TGAAAACACC AGGCACGCGT
GCGGTCTACA TACAAACATG AAAGCAAAAT ACACACATTA CATAAATAAA
TCTTAAAAAA TGATTCGGGG TGGGGGAAGG AAAAAAAGG ATGTTAGAAA
ATCGATGTAA CTGTTTTTTC CTTTGCACA GATCTAAGTT AGGGAAGGAG
AACATTCTCT TACCATCGAA AATAATTGTT TTCATTGCCC CCAAGTCTGC
TAATAGAGCT TGCTACCTTC ATGGCTGTCT TAAGGATGAG GCAAAGATGG
ACTTCAGCTT TCAGACTGTG TCTGCTCAA TGTTGGCTAC TCCTGTTTTT
TGACCCCTT CTCTGGTGCA ATGTGGACTT TCAATTAATT TCCCTGCATC
TTTTACATAT TTGATTTAAA AAATATTTTA TTTTATGTAA TTGTATGTAT
ATGCATGTCA ATAAGCATAT GTGTGTGTGT TTCCATGGAA ACCAAGGCAA
CAGATTTTCC AGAGCTGTAG AAATGGGCTG TGAGACGCCC ACTGTGGGTG
TTCGGAACCA AACTCGGGTC CTGTGGAAAG ACAGCGAGCA CCCATAATGC
AGAGGTATCT CTCAGATTTT ACTTTAAAT TTCAATTTTC TTTTTTTTTT
TTAAAGTTCC AAGTAACTAT AGGAAAGTAC ATGGGTATAT AGATCCCCAG
-3010 TACCAAGATT CTTCTTTTGC AGGTAGCACA ACTTGGTTTG TTTCACATAA
AGAATGGAAA GTCATTAAAA CACTCATCAC ACTGTAAAGT AGAATTGAAC
TCTGACAGAA CAAGCGAAGT GAGTCTGACT TCCAGGTAAC TGAGCCTTCT

Figure 1 continued

TTTCCTCCTA AAGACACAAG CCATACACAG AGTAAAATAA ACTTGGGCAT
GGTGAGAAGG AAACAACGCA GGAGGGCTAG CCAAGTCTGA GAGTCGTGAG
TGTGCTCGGT TTATAAACGG AGCCACCTT GCCAGCGAGG TAGTCACATG
CTCTGCTAAA CAGAACTTA AGAAAACACT TACACGAAGC AAACATGGGG
AAGTGCCATG CAAGCATGTG ACTGACTGGT GGCAATGACC GAAACCACAG
CAGCCACTAG AAAAGGAAGG GTAGTGCGCC AACTGTAGT TGTGAAAATG
AACTTATTCA TTTATTTTGA AAAACGTGTA AGAAGCAAAG ATGTCTTCTT
TCCCACCTAC CTTTGCGGCA GCGGAGCACT TCCTGGAATT TATAAAGTGC
GATCTTTCTG GGGACTTCTC ATAACATTTT CTACTGCTCA TCTATGTCTG
TGTCAAATAG AGAATGCTCT TGAACAAGTG TGTGTGTGTG TGTGTGTGCG
CGCGCACGCG CACTCACTCC TGCTCTGTTG AGGTCCAGTT TTGATGGTCC
CGCCAGAGGT ATATTTGAGT ATCATTTCTC AAGAGCTTCA GCTGGGAGAC
ACTGCCTCTT ACTGGCCTGA AGGTCACCTAG CTGATTCATC TCCGTTTGGG
CTGGCGCGCC TTGGGGATCC TCCTATCTCT CTTTCCCCAG TGCTGGGATA
ACAAGGTTGG CACCACATGA GCCTTTTAAA ATGTGAGTTT GGAAGCTCAA
ACGCAGGTTT TCATGCTTGC ACTGAACTT CACAAGCTGA ACCGTCTCCC
TCTCCTTCCC TCTCTTTTTT CTTTTCTTC TTCCTTTTTA AAACACATCT
-2010 TGTCTTTAAA AAAAAAAAAA GGCCCAAAC AAGTGTAAG TATTTCCCTA
TGTGTGTGGA GGGAGGGAGT ATAGGAGGCT GATTTCCTG AGATCCTGTT
AAATTTGGGT GCCATAGCCA ATCAAAGACG CATCGTTTCC TCTAAGAATT
CTAAATGGGG CGATTACCAC GGCCTGCAG GTTCTGGTTT GTATTAGAGG
AGACACTGTC TTCTTAAGTA AAACATAGAA GGGGAAGTGT CCAGAATTGT
AAATAAGGCT TCGAGAGAAG CCTTGTCTGG CCACCGGGAT GGAGAAGACC
TACCTTCGCC TATCCAGGAT CCATCGTCCC TCCCTCTACC CAGATCTGAC
AGCCCTCCTT GGCTCTTTTG CTGAGGTTTG TTTGAGTTTG TTTTACTCTC
TGCAAGAGAA GTTTCCTTAA ACATTCTACC CTGTTACAA GTAAATACAC
CTCTTAGCTA AGAGGCCACA CACCCAGGGG GAACACCGAT AAAAGAACA

5/21

5650
-10106150
-510

AGCCAGAACC TTCAGAACGC TGTCGATAGG TACACCAAGC AGCCTTCATA
CGGAGTTTTTTC ATTCGTGAGG AGCTGAATAT ACAACAAAGC TAAATGTGAG
CAGACCAGGC ATGCCTCTGC TAAATGAGGA TGCCACACACC AAACATGCCC
AAGATCTTCA AGTATAATTT TATTATATAG ATTCGCTATG TGTGACATG
TTTTTTATAGT GAACCTGGAT TTTACAAACC CTCCTGGTTT GCCACCTGCT
TCTGGCACCA TACTTGAGGC TTAGGCACGT GATAAAGGAG CATGCCTGTT
TCCCCCTTA TTTTTTTTAA AGAAAAGCAC CATGTTACAT CATTAAATCAT
GCATATCAGT GTAGTTTAGA TCCGATGTAG AGACAATAAT CTTATCTCTT
TGTCTGGCTG AAAGACTGTC CTTTAAACTA TCATTCTAAA TGCATTTGGT
TTTTTGCCAGG AGTAAAACAT GTCACAAGAT ATTTGTTGTC ATTTCCCAGG
CGTGGAAGGA AAGGAATGGA AAGAAAACCA GGGGTGAAGG CTGCTGTTCC
TCTCTAGTCG CTACTTGAAG TCTACATAGC TGGGGGGGGG GGGGGGACTG
TTCACATGGG ACCGGTTTCC TCTTTGTTCC TACACTGGCG CCTCTGGCAA
AAAACTCTCC CTTCTCTTCC CCCCAGCAT ATCTTGGCTG AAAGGTCAGC
TCTGAAAAGG GGCCTGGCCA AAGTTACTGT AGGGGACCGT GGTCATGGAA
CTGGGTAAAC AAAAGCACTC TAGCAGCCAC TGGAAAAGGA CCGGGGGCTC
TTCTCTGTGC ATTTGCCCTG GAACCCTGAC CACCGCCAGC TCCCTGCATC
TCCTTGCTAT GGGTTTTCTG GACCGACCCA GCCAGGAAGT TCACAACCGA
AATGTCTTCT AGGGCTAATC AGGTAACTTC GGACGATTTA AAGTTGCCAG
ATGGACGAGA AAACAGTAGA GCGGTTGGCA ACCTGGATAA GCGCCTATCT
TCTAATTAAA ACATTCAGAC GGGGCGGGGG ATGCGGTGGC CAAAGCACCA
TAAACAAAAA CTTCCAAGTA CTGACCAACT CACTGCAAGT TTGTGCCCCG
AGTACATCTA GGTTCAAGGG TTCTTGTTCTT CATGCTCCCA ACTGCGGGCG
GATTTTTTGGT CCCTTGGGAC TTTCAGTGCA GCGGCGAAGA GAGTTCTGCA
CTTGCAGGCT CCTAATGAGG GCGCAGTGGG CCTCGTGTTT CTGGTGATGC
TTCCCAGGTT GCTGGGGGCA GCAAGTGTCT CAGAGCCCAT TACTGGCTAC
ATTTTACTTC CACCAGAAAC CGAGCTGCGT CCAGATTGTC TCTCAGATGC

Figure 1 continued

6/21

GACTTGCCGC CCGGCACAGT TCCGGGGTAG TGGGGGAGTG GCGGTGGGAA
 ACCGGGAAAC CCAAACCTGG TATCCAGTGG GGGGCGTGGC CGGACGCAGG
 GAGTCCCCAC CCCTCCCGGT AATGACCCCG CCCCATTCTG CTAGTGTGTA

+1 (transcription start)

-10

GCCGGCGCTC TCTTTCTGCC CTGAGTCCTC AGGACCCCAA GAGAGTAAGC
 TGTGTTTCCT TAGATCGCGC GGACCGCTAC CCGGCAGGAC TGAAAGCCCA
 GACTGTGTCC CGCAGCCGGG ATAACCTGGC TGACCCGATT CCGCGGACAC
 CGCTGCAGCC GCGGCTGGAG CCAGGGCGCC GGTGCCCCGC GCTCTCCCCG
 GTCTTGCGCT GCGGGGGCGC ATACCGCCTC TGTGACTTCT TTGCGGGCCA

VRE

GGGACGGAGA AGGAGTCTGT GCCTGAGAAC TGGGCTCTGT GCCAGCGCG
 AGGTGCAGGA TGGAGAGCAA GGCGCTGCTA GCTGTCGCTC TGTGGTTCTG
 CGTGGAGACC CGAGCCGCCT CTGTGGGTAA GAAGCCCACT CTTTAGTAGT
 AAGGCGGAGA AGTAGGGTGC GGGCGGAGAG TGGGAATAGA AGAGGACCTA
 ACTCGTAGAG CTCTAGAGAC CCTCCTCCCT TGGGTGTTCT TTTACTTACC
 AATGGGGAAA CTGAGGTTCA AAGACTCTTC CGAAATGACT CAGCCAGGAT
 TCTACTCTCC CCCGGGCATC GGTTGGAGCG TGTCTTGCGG AGCCGTCACA
 GCCCCTGGCG CTAGGTAGGC AGGAGTGGA AGGCGGCCTG AGCCGGGGCA
 GGAGATGCTC CCACTGGCAG GAACAGGCGG TCAAACGCTG GGAAGCCAGC
 TCAAGCCAAG CGGCCCCGCT GGCATCAATC ACTCGGTGCT GTTGCCCAAC
 GCCCTAGTGG GGGGCAGGA ATCCGCCTCT GGCTCCGCTC CCCTTTAGCT
 CCAGCGTGTA AGCGCACGGA CTATGTGAGG GTAGGTCTCT TCATAGAGCA
 AACTTTTCCT CCCTCAACTT TCTTTGATGC AGAATGCTAT TTTTGCTGGT
 AGGAGGAAGA CGCGGCTTTC TCTTCTGTGA CAGCTTCTCC AGGTGTATTA
 AACTAAATAA CTCTCCACTT ACCGACTCCA AAGCGCTGGT CCTGGGGTAA
 ACTCTGAAAG TCTCAGAAAC TCTTGAGCTT GGCACCTAGT TATAGGTCAC
 TTTTCTTGTT TTAATAATGCC CTCTGCTTCA AGGTTAGGCC CAACTCGCT

+490

+990

7/21

CTTGGGCTTT TGTGCAATAA TTTCCCTTCC CTTCCCTTCC CTTCCCTTCC
CTTCCCTTCC CTTCCCTTCC CTTCCCTTCC CTTCCCTTCC CCTCTTCCTT
TTCCTCCTCC TCTTCCTCCT CTATTTCTCT GTCATTTCCCT TTTTGAAGCC
ACAGTTTGCA GATTTC CAAT CTCCACCCAT TGGAGAATGG AGAATCAGGA
AAAAAGAAGT CAATTCTGCA GAAACATTCC TTGCGCCCTA AGAGAATCGC
ATGGCTTAAA AGCATTTGGCA CTGACATACG GCGCCAAGAT CGCCTGTCTA
GAGCTATTGA GTTTTCCTCA TAATGACTTG GTTCATCAGG CTAGCTCCAC
CACGAGTGCC CTCTTGTTCC TGAGAAGGCC GCACTCTCCC CCTTTCTGGG
AAGAGAAAGA CAGCCTGGAA CATGTGCTTG CCCTGGGTTC CATAGAGAAG
CAAGTTGCTT TAAAGCCCAG AGAATTCCTA GTGTAGCAGC TTAACAGCGT
CCCGTTCTCT GAATAAGATG GAGGTTGCCC TTTTGGAGTG TGTGACTTGC

XhoI (+1677)

TTAATTGGAT TGGGCTATAA TTGGTGCCAT CCAAGTCTCG AGACAGAGCC
GCTGTTGTTT TTCCTTCTGG TCTTTGAGCG GGAAGGATAA CAGTGCACAA
ATTAATTAAT GTTGGTTATC GGATTGTAAC ATAAAAGGGC TTTTATTGTA
TAGTAGCATA TGTACCTCTT GCAGTCAGAA TGAGCTGTCT AAAGAACAGA
ACCCAAACTT GCCGATGAAA ATGAATGAGG TTTAATAAAG GCGATGGATG
AGCATTAGTC ACTGATGTAA ATCTCCAGTT ATTGATAACC TCATTGACTG
GATTTGATTG CAGACATGTA TTGGTATGGG GCATCCTTTA AAGATGAGCA
TAGCCAACGT GCCTGCACTC TAAGAGAATC TATGGCTGTA TGTTATTACA
GAGACAGTTG AGAAGCTCTT AGTGGCTCTG GCGTGTAGAT CAGCGGTAGA
GCGCTGAGGC TCTGCGCTCG CTTCTGGCA CTGAAGAATA AAGGCCATTT
ACTGTGGTGG TGCAGTGGGC GCAGTTTGTG ACGAGTTACT ACTACATTTT
CCTCACACAT CTGCCTGACT AATGAGTTCA TCAGATGAGC GTATCCAGTG
ATTGTTTGCA GGTTAATGGT TCTCAGTCAT GTTTAGAATC TACTTATCAA
ACAAATTGTT TTCTCATTTT CTGCTTCTTC TCAAACAAAG TAAGATTCCA
TTATTGAAAG GCTTGTTTAA GAGCATTTTA ACTGCTTGCC TATGTTAGGG

+1990

9650

+2990

9/21

AAACAGGAAC TCCACCCTGG TGCCGTGAAT TGCAGAGCTG TTGTGTTGGT
TTGTGACCAT CTGCCCATTCTC TTCCTGTTAT GACAGAGCTT GTGAACTTTA
ACTGGGACTG GGGCAAAGTC AATCCCACCT TTATACAATG AATTGCTGAA
GAGGCCTTTT AAAACTTGGA GTGTGCATTG TTTATGGAAG GGCTTTCCTA

BamHI (+3947)

10650

+3990

TTGGATCCAA CTCTTTTCTA ATTTGTTTCT AGGTTTGCCT GCGGATTTTC
TCCATCCCCC CAAGCTCAGC ACACAGAAAG ACATACTGAC AATTTTGGCA
AATACAACCC TTCAGATTAC TTGCAGGTAA GGATTCCTTT TTGAGCCAGC
TTTCCTATGT GAAAGGACTC ATTTGTTTACT GAGGTCACAA CAATTTCCAC
TATTGCAGAA GTATAATAGT ATTTGTTTACAA TTGTTTATAA ATCATGAGAC
TTCTAAGAAC CTATTTAATA ATGAAACAAT GGAAAAAGTC TTTTCAAACC
TTTGTACTCT TTTGCTGAGC CGTTTTCAAC ATGCACAAAC ATATTACACA
AATATAACAT ACACAGGAAC ACACATGAAT GCATGGGATG ATGTGCCTAA
AACTAGCATG TAATTGATAT TCACAATTAT TGATAAATTA GTAAAGCAAA
GGAATTCCTT ATGAATAGAG CTAAAATTCT ATCCATGTTC AAGTCACCCA
GAATGGCTTC TGGACATTTT TTTTTTTAGC TGTTTTCTAC AAGTGAAATT
CTGCCTGTAT TAGCAATTTA ATATCTAGCC AATAATATTC CTGACCATAT
GTCCTGTTCA GACCATGACC TTCATAATCT GGCTTGATGT TCTGGGCTTC
TTTCCCTCTT GCCAGCAAGA TGTACCGGTG TTGATGCTGG ATAAACTGAG
AAACAGAAGT TTTTCGCAAG AAGAGGACCT TGAATTTTGC TTTTCCCCTG
AGAGACAAGA AAGGAAACTT AGAGGAGGTG TAGCTGGGAG TGTGGTCATT
CATGAAAGAC CTGTTTGCAG GGCAGTGTGT TTTGCTGGGG ACAGTAATGA
GCCTAGATCG TAGTGCCATC CCAAGAGAGT GCTTGGTGGC AAAAAGAGCC
CTAGCAGCTT GTGGCAGTTG CCTCATATTT GAAGAATACT AAGAGGTCCC
CCGAATAACT CAGGGCTAGT GTTGATCATT GCATGTGGAG AGAATCCAAG
CCTCCTATCT AGGGTCTACA AAAGTAACCA ATGCCAGTC TTTGGGGGAA

Figure 1 continued

10/21

11650
+4990 AGCAAAACCA GAAAGCGATG ATAGCAGGAC CTGTTTATTT TCATTAAGTC
ATGGCATTTC CAGAGACTTT GCTCCCCCTA TTCTCAGACA CAAAGCCCAC
TTAAGATCTC CCTCTGGAGA CTGCTGGGAA CATTCTTAA GTTCTGAAAA
AACCCTGGAG TGATTGGGCA CAGACGATCC TGTCACCTCA TGTGAGTGCT
AAGCTCTTTG GGTGATGACT CAGTGGGTCA CATTGTTTTA TTCATATTGA
CTACCTTCCG TTTGCTTTGC GGAGAATGGA AGCTATAGAA GTCTGTTTGG
TGTGGCCCTC ACAAGGCACT GTGAGCTTCT TCTCTCTGTG TGCTAACTTC
TACTCTCCC TTGCTTATAC CCACATAGGG ACTCTGGCTT TGTGCTGTT
CTTCAATGCT TCAGATGTGC CCTGGGTCCT GTCTGTCCTT CACACTTACT
GATGCTGCCT GGAATGCTAT TCCTCCCAAT GTGCATAGGG CCAGCTCGGT
CCAAATCCTC TCTTTTCTTT GCCTCTTTTA TATTTTCCTT CACAGTATCA
AATCACCACA GTTTATGCAA CAAACTGAAA CTTTAAAATT GTCTGTCTCC
TTATATTAGT GATAGGTTCC AGAAAGGCAC TGATTTTTTTT TCTTCCCTGG
TGTACACTGG GCAACTACTC TACCACTGAG CGTGATATCC TTGGTCCCTT
AAAAGTTATC CTCTGTCCTT AATAATGCTT AGCAATCATA TTTGCTTAAA
ATATTTATTG AATGACTGCA GGAATGAATG AATGAATGAG CTAACAGAAA
ACTCATGACC ATGTGGGTGA TTTCCGAAAC AGAGTGTGAG ATCTTTGGTG
GCATGTCCTT GTAGACTGTC TGCCACCAGT ATCTATCATC TTGAAGGTGA
CTATTGAGTA GTTTATATGC ATGTGAAAAA CCAAACCTTC TATTCTCTTA
CTCATAGCCT CTCTTAATCA TAGCCCTGTG GCATGGAGTG TACCATTGAT
12650
+5990 ATCTTCCTGG AATACTTTTT CAGGGGACAG CGGGACCTGG ACTGGCTTTG
GCCCAATGCT CAGCGTGATT CTGAGGAAAG GGTATTGGTG ACTGAATGCG
GCGGTGGTGA CAGTATCTTC TGCAAAACAC TCACCATTCC CAGGGTGGTT
GGAAATGATA CTGGAGCCTA CAAGTGCTCG TACCGGGACG TCGAC
(SEQ ID NO:1)

Figure 1 continued

11/21

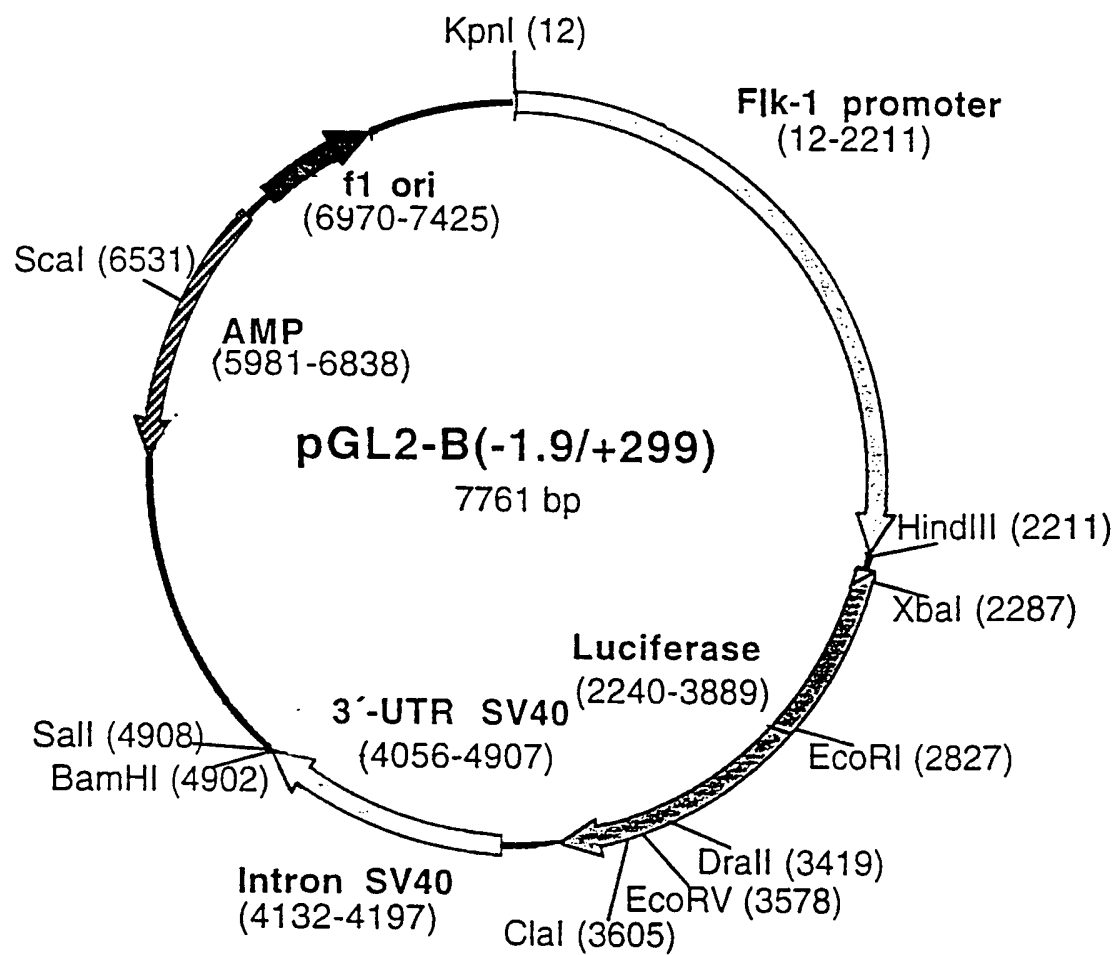


Figure 2

12/21

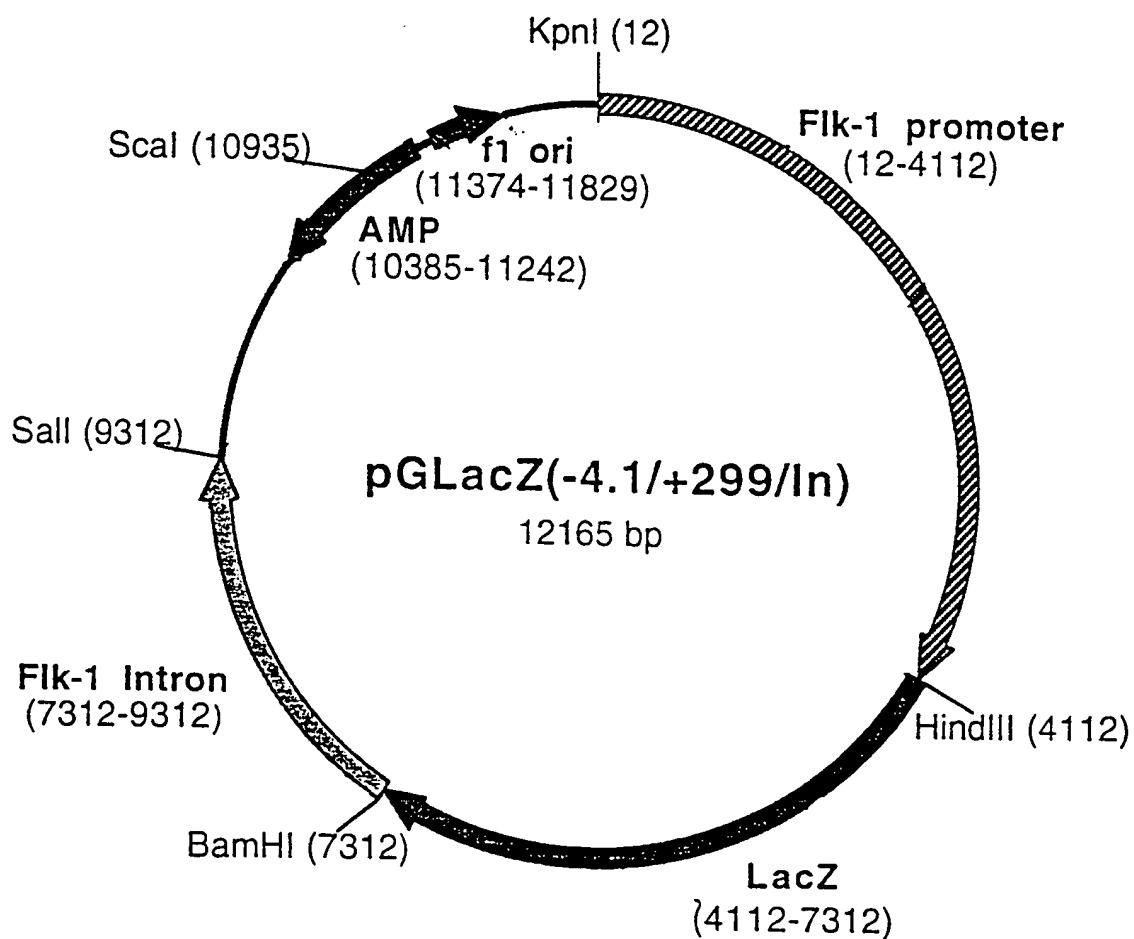
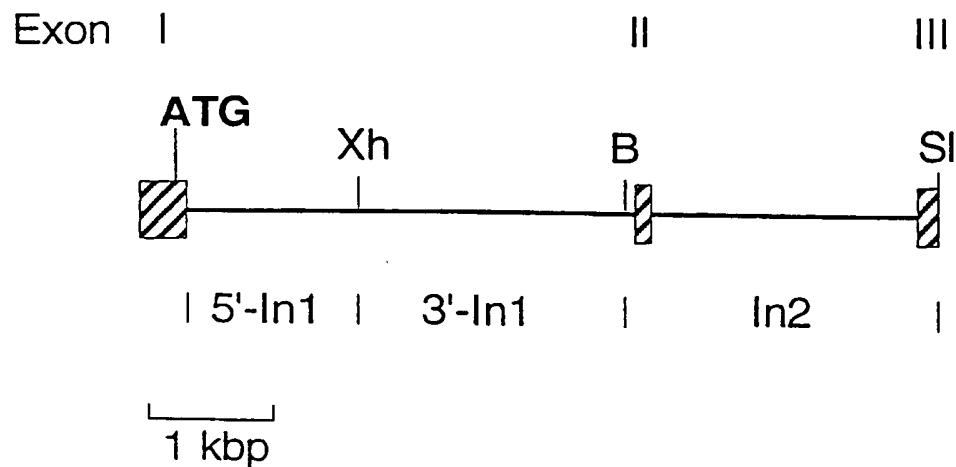
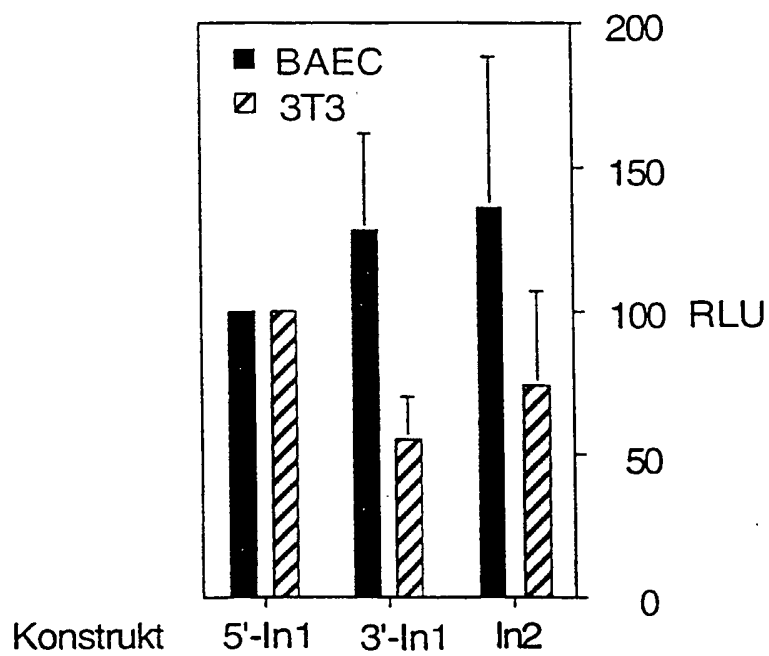


Figure 3

13/21



A



B

Figure 4

14/21

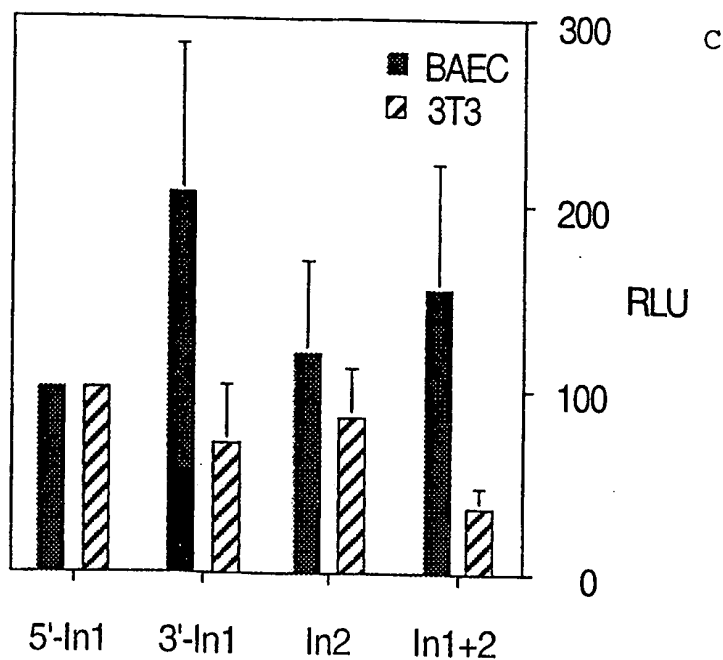


Figure 4 continued

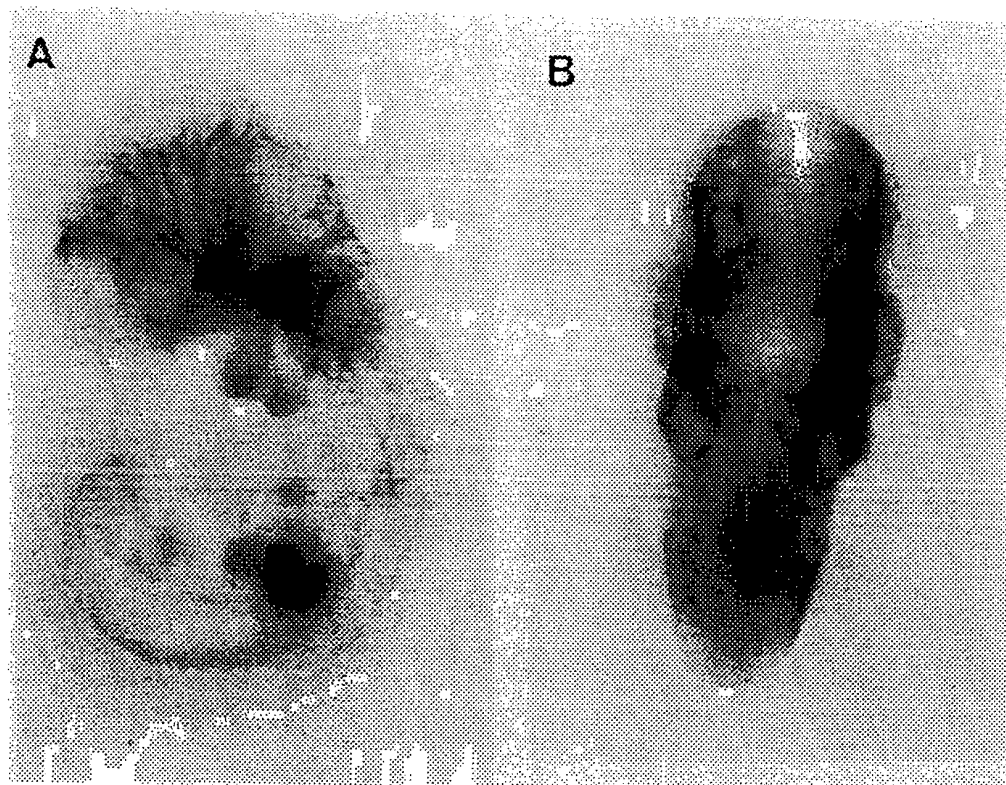


Figure 5

15/21

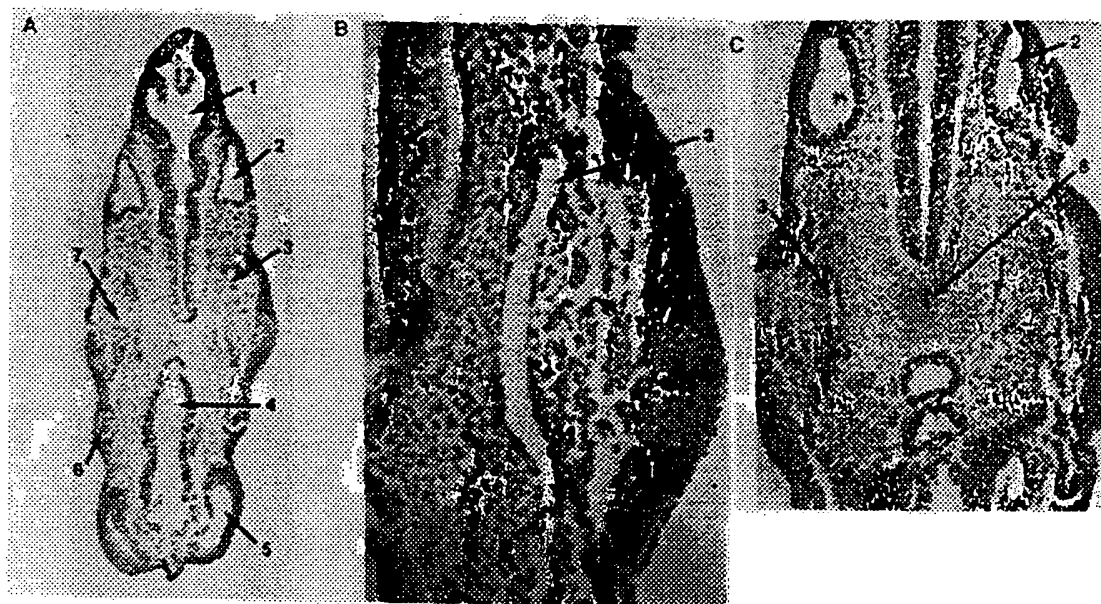
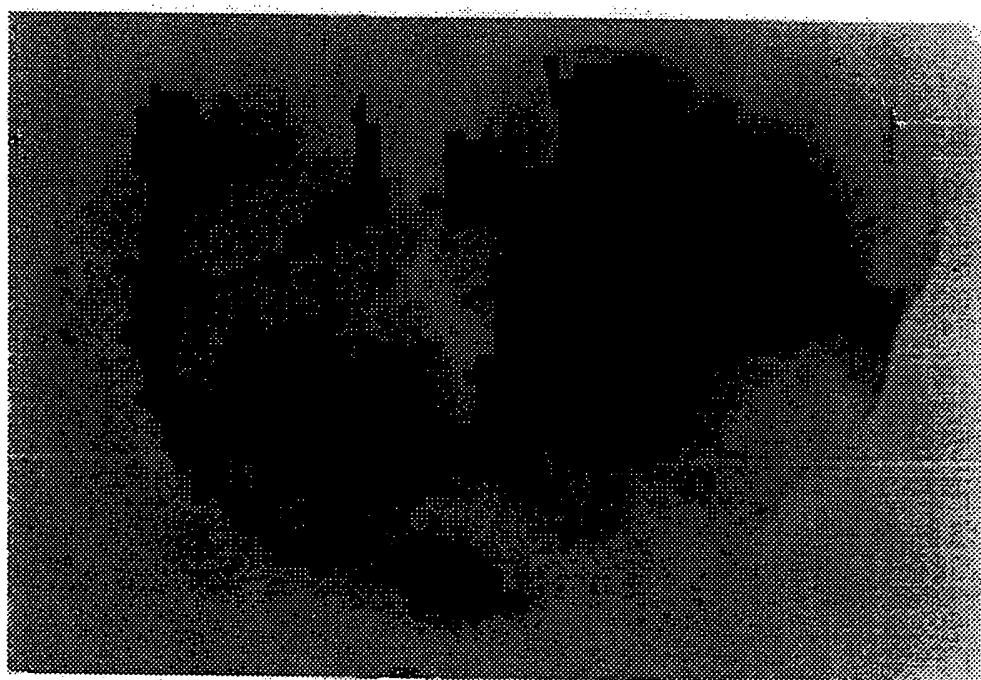


Figure 6



16/21



Figure 8

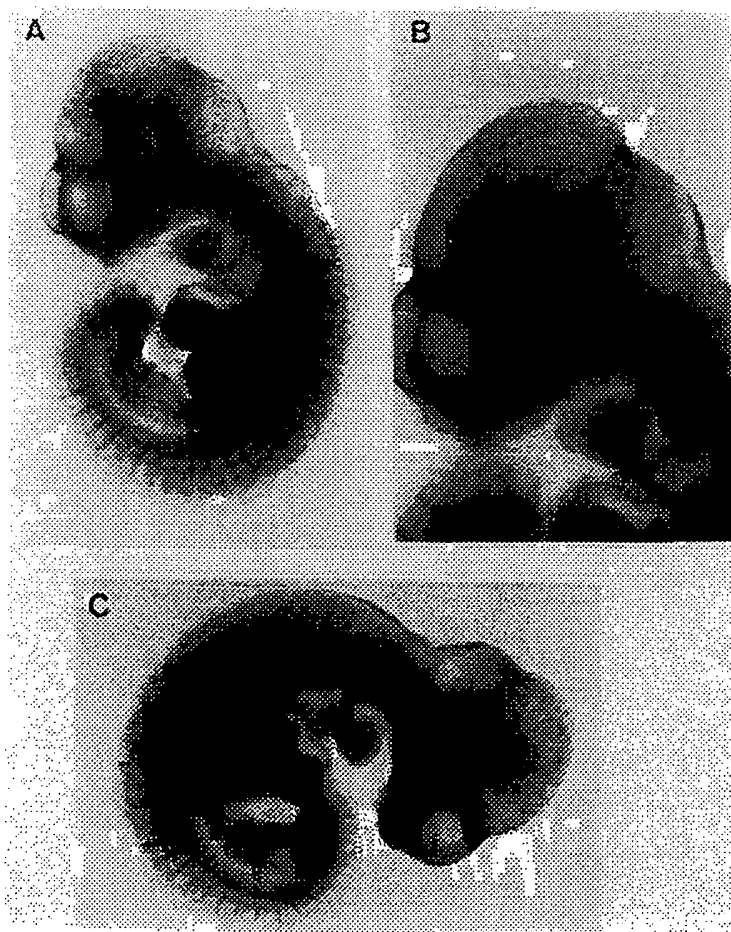


Figure 9

17/21

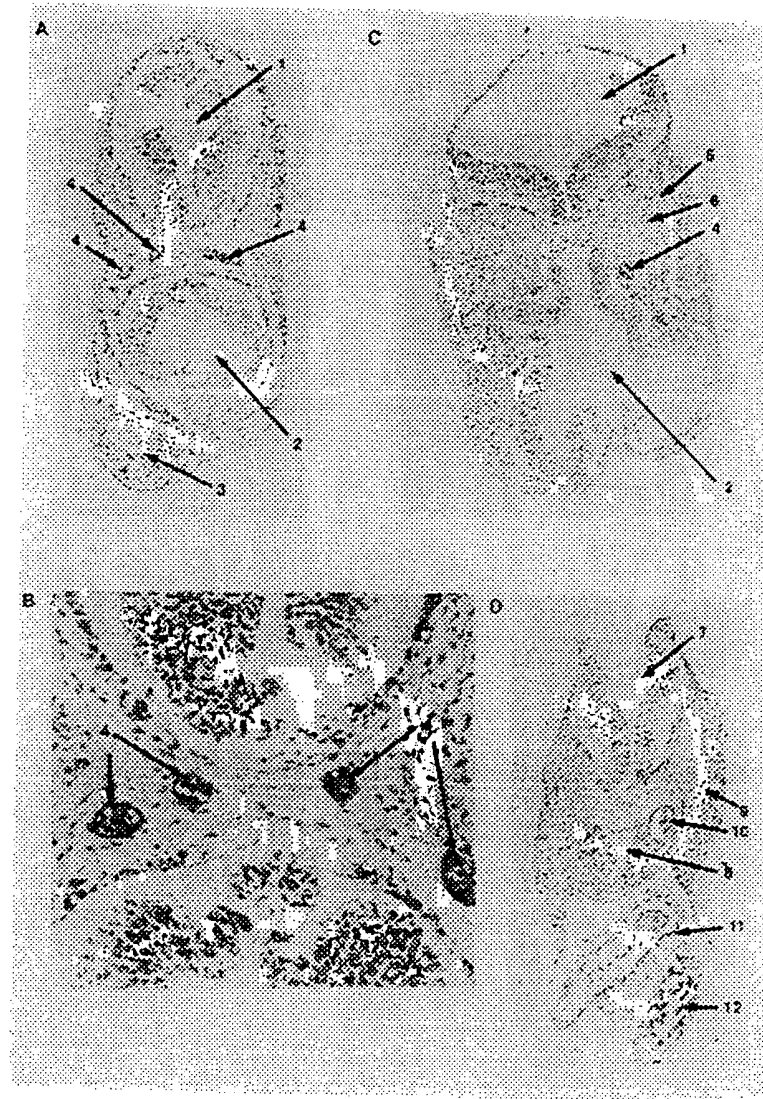


Figure 10

18/21

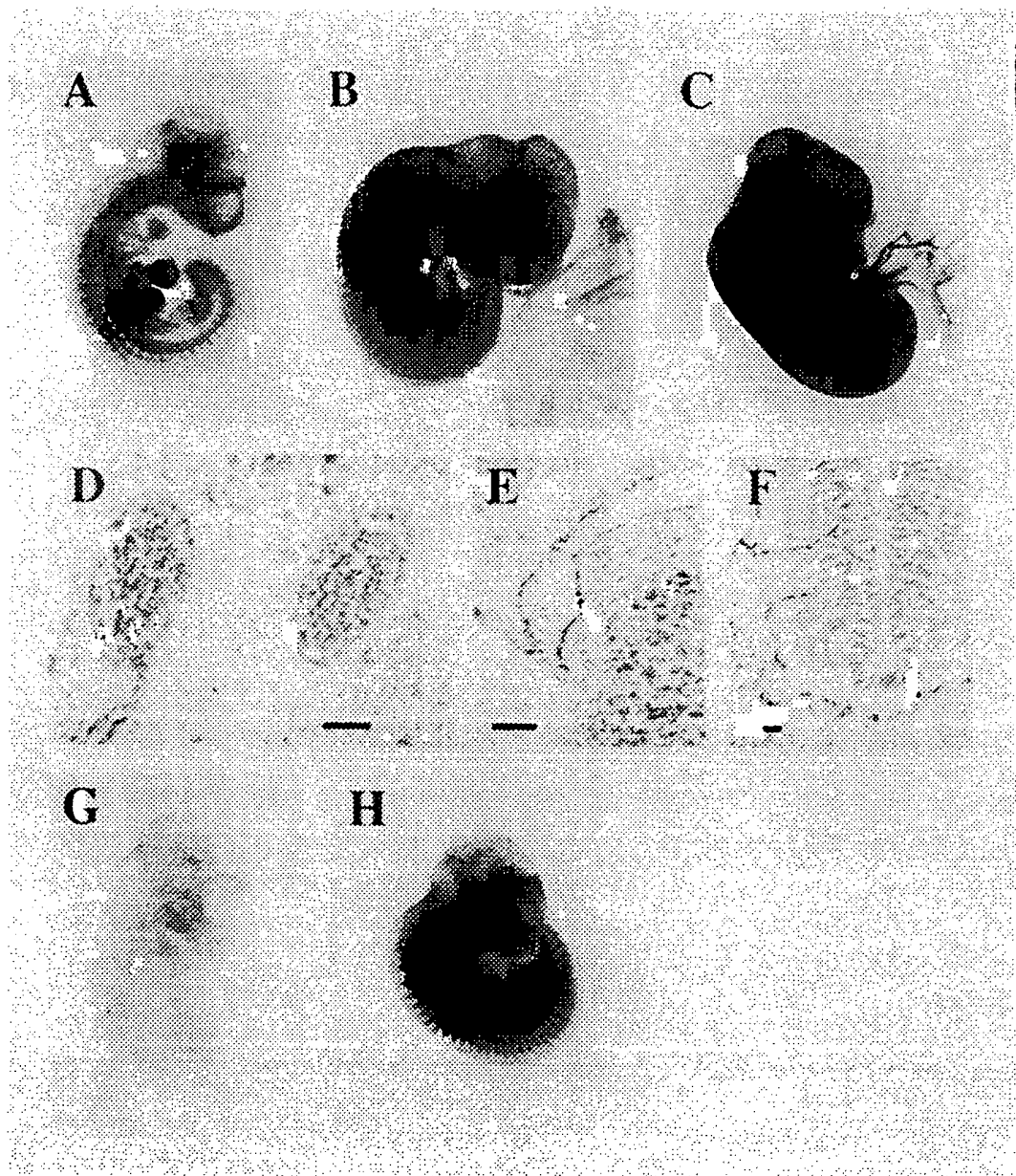


Figure 11

19/21

GATA PEA3
 AAATGTGCTGTCTTTAGAAAGCCACTGCCTCAGCTTCTGCCAGCTCAGATACCAAAGGAAGTCTGGT
 GATA AP1
 ACACAGCATGATAAAAGA CAATGGGACGGGGTCAAGTGGCTCCCGTCCCTTTTCAGGGGTATGGA
 NFkB AP1
 GACGAGCTGTAGAGAGATGTCTCCAGGGAGTTTTCATTAATCAGCAATTTAGTCAGATCTGTGCA
 STAT SCL/TAL-1
 TCCTATGCTTTACAAGAAATGTCAGTGGGCCTGAGATCATCAGATGGAGGTTCATCGGGTTTCAA
 Ets-1 GATA Ets-1
 TGICCCGTATCCTTTTGTAAGACCTTGAAGTTGGCAACGCAGGAAAACAGGAACCTCCACCCTGGT
 SCL/TAL-1 Ets-1
 GCCGTGAATTGCAGAGCTGTTGTGTTGGTTTGTGACCATCTGCCCATCTTCCTGTATGACAGA
 GCTTGTGAACTTTAACTGGGACTGGGGCAAAGTCAATCCACCTTTATACAATGAATTGCTGAAG
 AGGCCTTTTAAAACTTGGAGTGTGCATTGTTTATGGAAGGCCTTTCCTATTGGATC

Figure 12

20/21

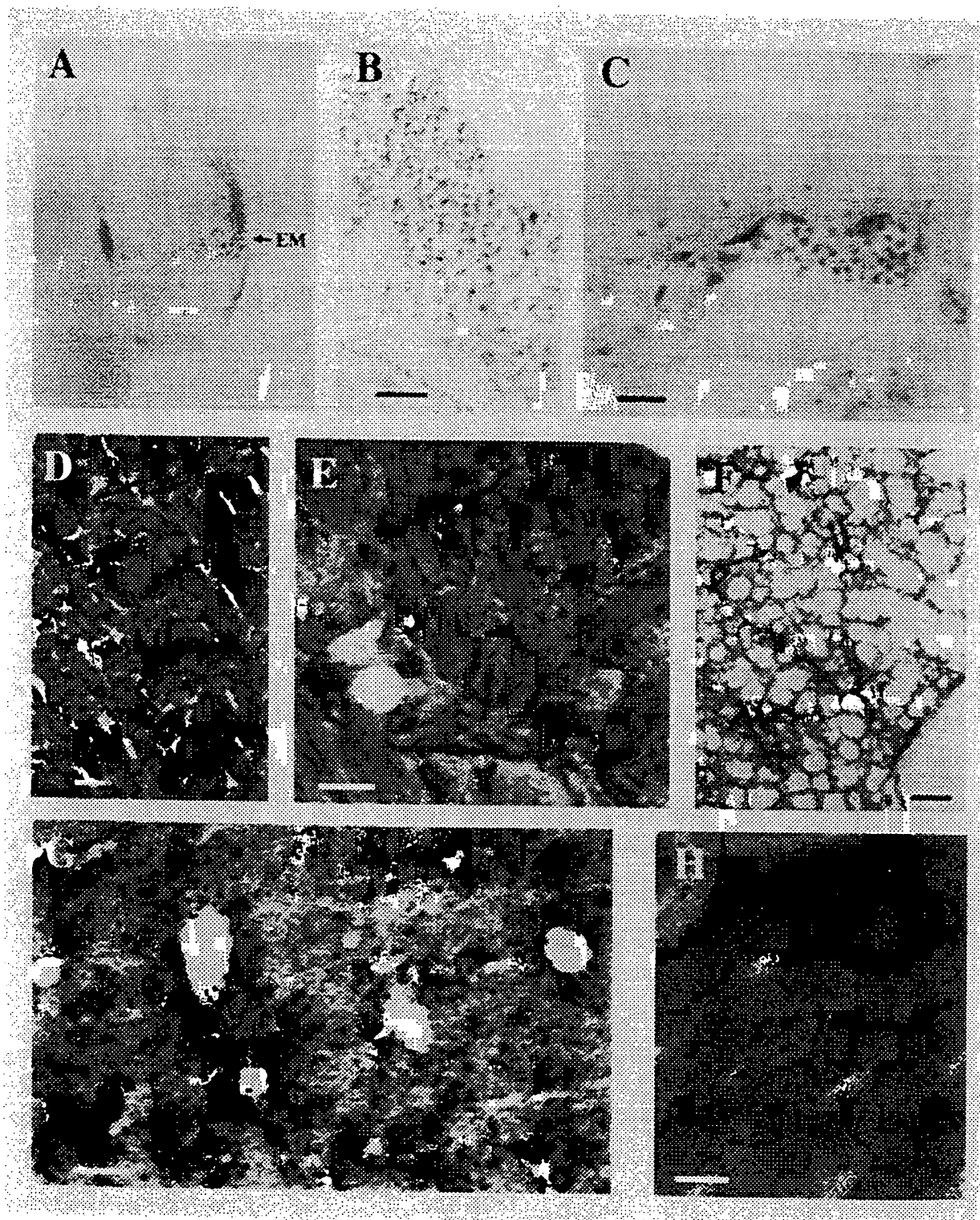


Figure 13

21/21

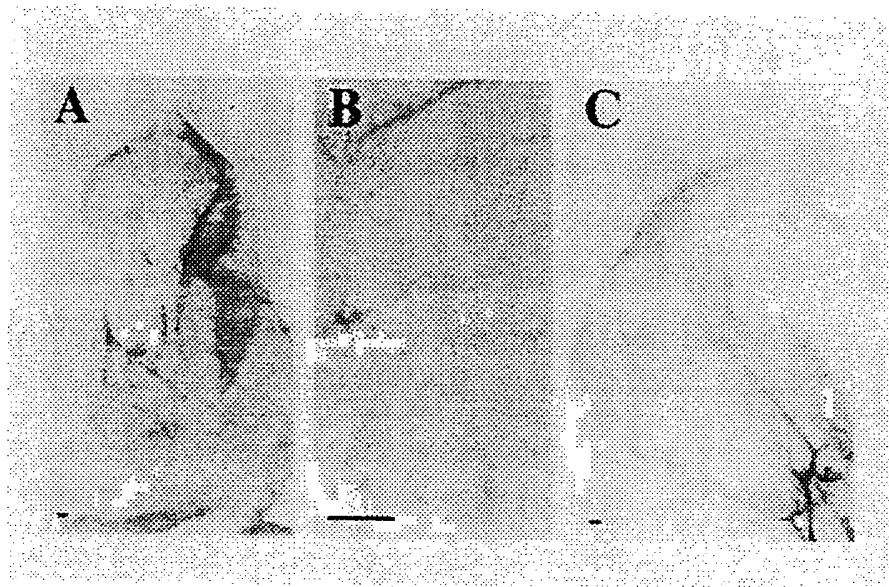


Figure 14

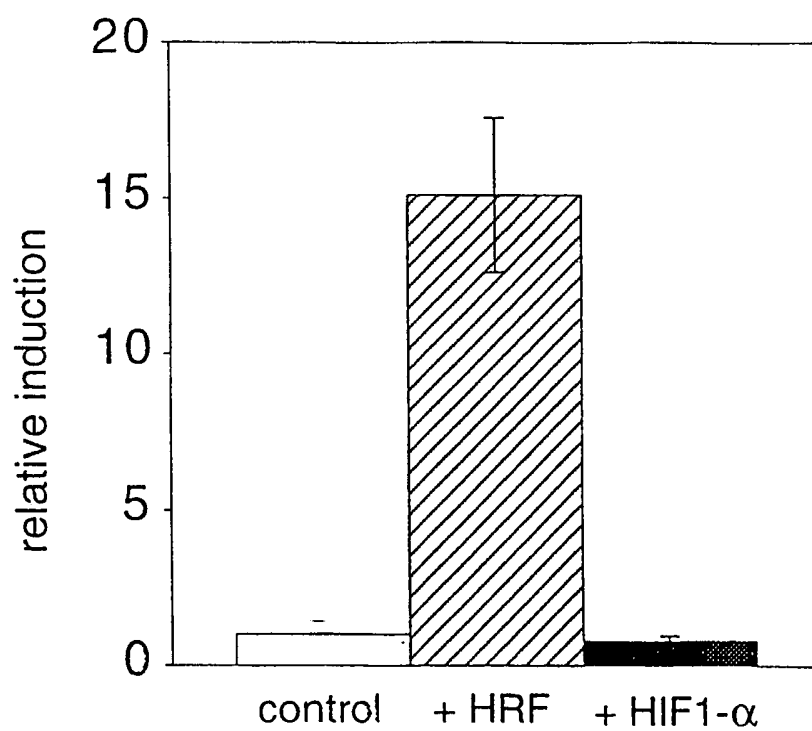


Figure 15